



PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2006☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 180.00**Complete if Known**

Application Number	10/760,048-Conf. #8719
Filing Date	January 16, 2004
First Named Inventor	Shirley Tsang
Examiner Name	Carla J. Myers
Art Unit	1634
Attorney Docket No.	020187.0187PTUS

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: 50-2228 Deposit Account Name: Patton Boggs LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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- = x =

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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- = x =

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims

Fee (\$)	Fee Paid (\$)
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3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
-	100 =	/50	(round up to a whole number) x	=

4. OTHER FEE(S)**Fees Paid (\$)**Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	42,533	Telephone	(703) 744-8069
Name (Print/Type)	Therese M. Finan	Date	May 3, 2007		



Docket No.: 020187.0187PTUS
P-5727
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Shirley Tsang et al.

Application No.: 10/760,048

Confirmation No.: 8719

Filed: January 16, 2004

Art Unit: 1634

For: DETECTION OF ENTEROVIRUSES BY
REVERSE TRANSCRIPTASE-SDA

Examiner: Carla J. Myers

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

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Since the publication to Sambrook is not material to the above-referenced application, Applicants are not submitting a copy. If the Examiner would like a copy of the publication, it will be furnished at the Examiner's request.

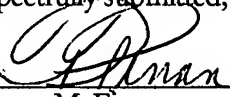
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Credit Card in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). Credit Card Payment Form SB-2038, with a signature from an authorized cardholder, is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-2228, under Order No. 020187.0187PTUS.

Dated: May 3, 2007

Respectfully submitted,

By 
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PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/760,048-Conf. #8719
				Filing Date	January 16, 2004
				First Named Inventor	Shirley Tsang
				Art Unit	1634
				Examiner Name	Carla Myers
Sheet	1	of	3	Attorney Docket Number	020187.0187PTUS

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-4,683,195	07-28-1987	Mullis et al.	
	AB*	US-4,683,202	07-28-1987	Mullis	
	AC*	US-4,800,159	01-24-1989	Mullis et al.	
	AD*	US-4,965,188	10-23-1990	Mullis et al.	
	AE*	US-5,130,238	07-14-1992	Malek et al.	
	AF*	US-5,169,766	12-08-1992	Schuster et al.	
	AG*	US-5,270,184	12-14-1993	Walker et al.	
	AH*	US-5,427,930	06-27-1995	Birkenmeyer et al.	
	AI*	US-5,455,166	10-03-1995	Walker	
	AJ*	US-5,470,723	11-28-1995	Walker et al.	
	AK*	US-5,648,211	07-15-1997	Fraiser et al.	
	AL*	US-5,691,145	11-25-1997	Pitner et al.	
	AM*	US-5,928,869	07-27-1999	Nadeau et al.	
	AN*	US-5,958,700	09-28-1999	Nadeau et al.	
	AO*	US-6,300,073	10-09-2001	Zhao et al.	
	AP*	US-6,316,200	11-13-2001	Nadeau et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	BA	EP-0624643	11-17-1994	Fraiser et al.	
	BB	EP-0678582	10-25-1995	Nadeau et al.	
	BC	EP-0684315	11-29-1995	Fraiser et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	AROLA et al., Identification of Enteroviruses in Clinical Specimens by Competitive PCR Followed by Genetic Typing Using Sequence Analysis, <i>Journal of Clinical Microbiology</i> , February 1996, Vol. 34, No. 2, pages 313-318	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/760,048-Conf. #8719
				Filing Date	January 16, 2004
				First Named Inventor	Shirley Tsang
				Art Unit	1634
				Examiner Name	Carla Myers
Sheet	2	of	3	Attorney Docket Number	020187.0187PTUS

CB	BILLAUD et al., Detection of Rhinovirus and Enterovirus in Upper Respiratory Tract Samples Using a Multiplex Nested PCR, <i>Journal of Virological Methods</i> , 2003, Vol. 108, pages 223-228	
CC	CARROLL et al., Evaluation of the Roche AMPLICOR Enterovirus PCR Assay in the Diagnosis of Enteroviral Central Nervous System Infections, <i>Journal of Clinical Virology</i> , 2000, No. 19, pages 149-156	
CD	CRAIG et al., Diagnosis of Enterovirus Infection by Genus-Specific PCR and Enzyme-Linked Immunosorbent Assays, <i>Journal of Clinical Microbiology</i> , February 2003, Vol. 41, No. 2, pages 841-844	
CE	Enteroviruses, http://virology-online.com/viruses/Enteroviruses.htm	
CF	GUATELLI et al., Isothermal, <i>in Vitro</i> Amplification of Nucleic Acids by a Multienzyme Reaction Modeled After Retroviral Replication, <i>Proceedings of the National Academy of Sciences of the United States of America (PNAS)</i> , March 1990, Vol. 87, pages 1874-1878	
CG	HELLYER et al., Detection of Viable <i>Mycobacterium Tuberculosis</i> by Reverse Transcriptase-Strand Displacement Amplification of mRNA, <i>Journal of Clinical Microbiology</i> , March 1999, Vol. 37, No. 3, pages 518-523	
CH	KESSLER et al., Rapid Diagnosis of Enterovirus Infection by a New One-Step Reverse Transcription-PCR Assay, <i>Journal of Clinical Microbiology</i> , April 1997, Vol. 35, No. 4, pages 976-977	
CI	KUAN, Detection and Rapid Differentiation of Human Enteroviruses Following Genomic Amplification, <i>Journal of Clinical Microbiology</i> , October 1997, Vol. 35, No. 10, pages 2598-2601	
CJ	KWOH et al., Transcription-Based Amplification System and Detection of Amplified Human Immunodeficiency Virus Type 1 with a Bead-Based Sandwich Hybridization Format, <i>Proceedings of the National Academy of Sciences of the United States of America (PNAS)</i> , February 1989, Vol. 86, pages 1173-1177	
CK	LANDRY et al., Rapid Enterovirus RNA Detection in Clinical Specimens by Using Nucleic Acid Sequence-Based Amplification, <i>Journal of Clinical Microbiology</i> , January 2003, Vol. 41, No. 1, pages 346-350	
CL	LINA et al., Multicenter Evaluation of a Commercially Available PCR Assay for Diagnosing Enterovirus Infection in a Panel of Cerebrospinal Fluid Specimens, <i>Journal of Clinical Microbiology</i> , December 1996, Vol. 34, No. 12, pages 3002-3006	
CM	LIZARDI et al., Exponential Amplification of Recombinant-RNA Hybridization Probes, <i>Nature Publishing Group Bio/Technology</i> , October 1988, Vol. 6, pages 1197-1202	
CN	LIZARDI et al., Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification, <i>Nature Genetics</i> , July 1998, Vol. 19, pages 225-232	
CO	MANAYANI et al., Evaluation of a One-Tube RT-PCR System for Detection of Enteroviruses, <i>Journal of Clinical Virology</i> , 2002, Vol. 24, pages 25-30	
CP	MUIR et al., Multicenter Quality Assessment of PCR Methods for Detection of Enteroviruses, <i>Journal of Clinical Microbiology</i> , May 1999, Vol. 37, No. 5, pages 1409-1414	
CQ	NIELSEN et al., Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide, <i>Science</i> , December 1991, Vol. 254, pages 1497-1500	
CR	NIJHUIS et al., Rapid and Sensitive Routine Detection of all Members of the Genus <i>Enterovirus</i> in Different Clinical Specimens by Real-Time PCR, <i>Journal of Clinical Microbiology</i> , October 2002, Vol. 40, No. 10, pages 3666-3670	
CS	Non-Polio Enterovirus Infection, http://www.cdc.gov/ncidod/dvrd/enterovirus/non-polio_entero.htm	

Examiner Signature		Date Considered	
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				First Named Inventor	Shirley Tsang
				Art Unit	1634
				Examiner Name	Carla Myers
Sheet	3	of	3	Attorney Docket Number	020187.0187PTUS

CT	POZHITKOV et al., An Algorithm and Program for Finding Sequence Specific Oligo-Nucleotide Probes for Species Identification, <i>BMC Bioinformatics</i> , March 2002, Vol. 3, No. 9, (7 pages)	
CU	READ et al., LightCycler Multiplex PCR for the Laboratory Diagnosis of Common Viral Infections of the Central Nervous System, <i>Journal of Clinical Microbiology</i> , September 2001, Vol. 39, No. 9, pages 3056-3059	
CV	ROMERO, Reverse-Transcription Polymerase Chain Reaction Detection of the Enteroviruses, Overview and Clinical Utility in Pediatric Enteroviral Infections, <i>Arch Pathol Lab Med</i> , December 1999, Vol. 123, pages 1161-1169 (1999)	
CW	Sambrook et al., MOLECULAR CLONING, A LABORATORY MANUAL, Cold Spring Harbor, 2001, 3.sup.rd ed.	
CX	SIMPSON et al., A Method for Specific Cloning and Sequencing of Human HPRT cDNA for Mutation Analysis, <i>Biochemical and Biophysical Research Communications</i> , February 1988, Vol. 151, No. 1, pages 487-492	
CY	STANWAY et al., Molecular and Biological Characteristics of Echovirus 22, a Representative of a New Picornavirus Group, <i>Journal of Virology</i> , December 1994, Vol. 68, No. 12, pages 8232-8238	
CZ	STEININGER et al., Early Detection of Acute Rhinovirus Infections by a Rapid Reverse Transcription-PCR Assay, <i>Journal of Clinical Microbiology</i> , January 2001, Vol. 39, No. 1, pages 129-133	
CA1	TAKAMI et al., Determination of Enterovirus Serotype Inferred from Sequence Analysis of PCR Products, <i>Journal of Clinical Virology</i> , 2003, Vol. 26, pages 355-359	
CB1	TYAGI et al., Extremely Sensitive, Background-Free Gene Detection Using Binary Probes and Q β Replicase, <i>Proceedings of the National Academy of Sciences of the United States of America (PNAS)</i> , May 1996, Vol. 93, pages 5395-5400	
CC1	VAN VLIET et al., Multicenter Proficiency Testing of Nucleic Acid Amplification Methods for the Detection of Enteroviruses, <i>Journal of Clinical Microbiology</i> , September 2001, Vol. 39, No. 9, pages 3390-3392	
CD1	VERSTREPEN et al., Rapid Detection of Enterovirus RNA in Cerebrospinal Fluid Specimens with a Novel Single-Tube Real-Time Reverse Transcription-PCR Assay, <i>Journal of Clinical Microbiology</i> , November 2001, Vol. 39, No. 11, pages 4093-4096	
CE1	WALKER et al., Isothermal <i>in vitro</i> Amplification of DNA by a Restriction Enzyme/DNA Polymerase System, <i>Proceedings of the National Academy of Sciences of the United States of America (PNAS)</i> , January 1992, Vol. 89, pages 392-396	
CF1	WALKER et al., Strand Displacement Amplification-an Isothermal, <i>in vitro</i> DNA Amplification Technique, <i>Nucleic Acids Research</i> , 1992, Vol. 20, No. 7, pages 1691-96	
CG1	WATKINS-RIEDEL et al., Rapid Diagnosis of Enterovirus Infections by Real-Time PCR on the LightCycler Using the TaqMan Format, <i>Diagnostic Microbiology and Infectious Disease</i> , 2002, Vol. 42, pages 99-105	
CH1	YOUNG et al., Evaluation of a Commercial DNA Enzyme Immunoassay for Detection of Enterovirus Reverse Transcription-PCR Products Amplified from Cerebrospinal Fluid Specimens, <i>Journal of Clinical Microbiology</i> , November 2000, Vol. 38, No. 11, pages 4260-61	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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